

# MLPA Central Coast Stakeholders Group

Monterey, October 5<sup>th</sup> and 6<sup>th</sup> 2005 Meeting

Handout #2



Intro

**Marine Protected Areas**

# **Decision Support Tool**

Quick Reference Guide

# Log In

**MARINE PROTECTED AREAS DECISION SUPPORT TOOL**

*Welcome*

Username:

Password:

## User Name

Individual's user name entered into text box

## Password

Password must be at least eight letters in length, contain one capital letter, one lowercase letter, a number, and one special character.

## User Administration


User can request password if it is forgotten or change their password.

## Submit

Submits username and password for authentication. The username will set the permissions for the user within the Decision Support Tool.

# System Overview





After successful login, all user land at the Welcome page. Here, they are provided with an overview of functionality and process flow of the MPA DST. Clicking the “*Get Started*” text will take the user to the study area function to begin the application.

 **MARINE PROTECTED AREAS DECISION SUPPORT TOOL**


## Welcome


This tool is designed to support the Marine Protected Areas creation process. Reports are created by using the following functions:

### Selecting Criteria


-  Select a study area. This will default the map to the area of interest (Federal, State, or both).
-  Layers function is used to preview map layers.
-  Create or load candidate MPAs onto the map for inclusion into a report.
-  Create or load candidate MPA arrays onto the map for inclusion into a report.


### Selecting Reports

-  Select or create a report. Only those layers or features specified within the Report Builder are included in the final report. Only individual candidate MPAs or candidate MPA arrays placed on the map during the Select Criteria process are eligible for the report.



### Creating Reports

-  Produce a report on either individual candidate MPAs or complete candidate MPA arrays.



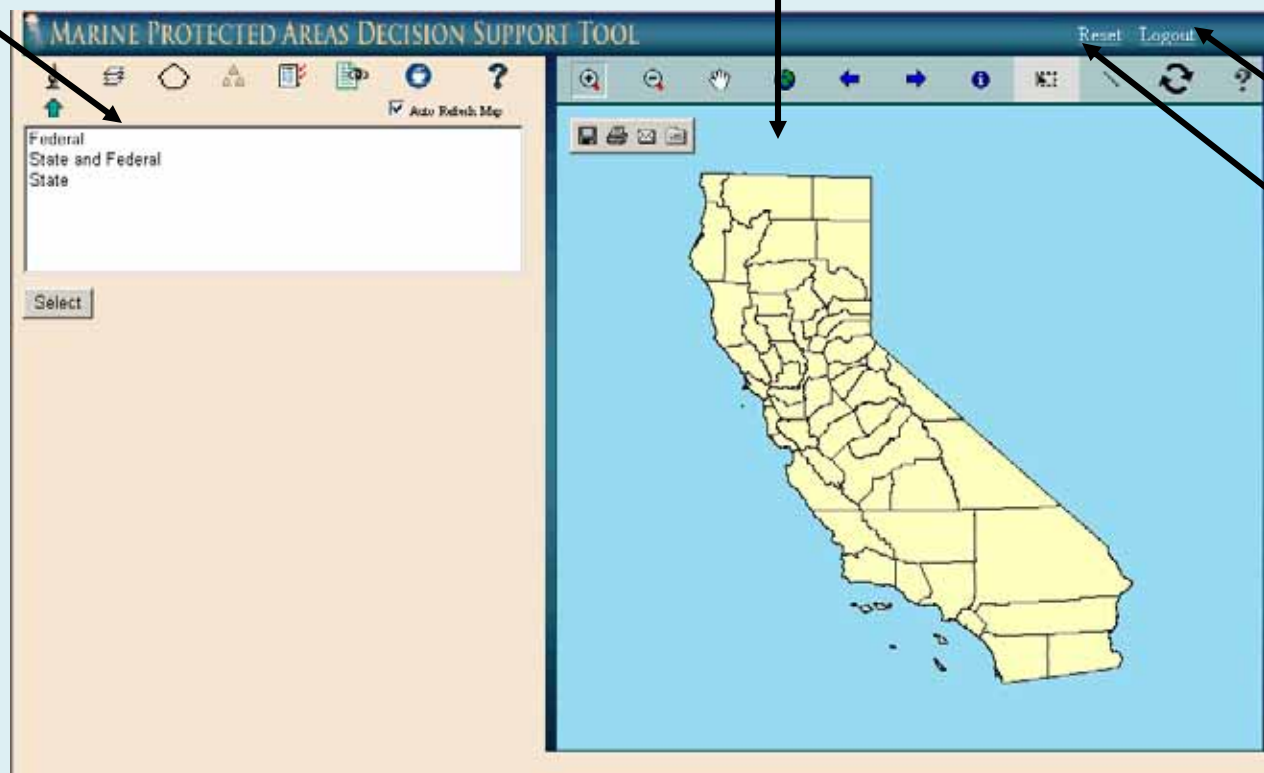
# Function Overviews

## Left Panel

- Contains the function toolbar
- Used to Place information upon the map

## Right Panel

- Contains the map toolbar
- Used to view information placed on the map

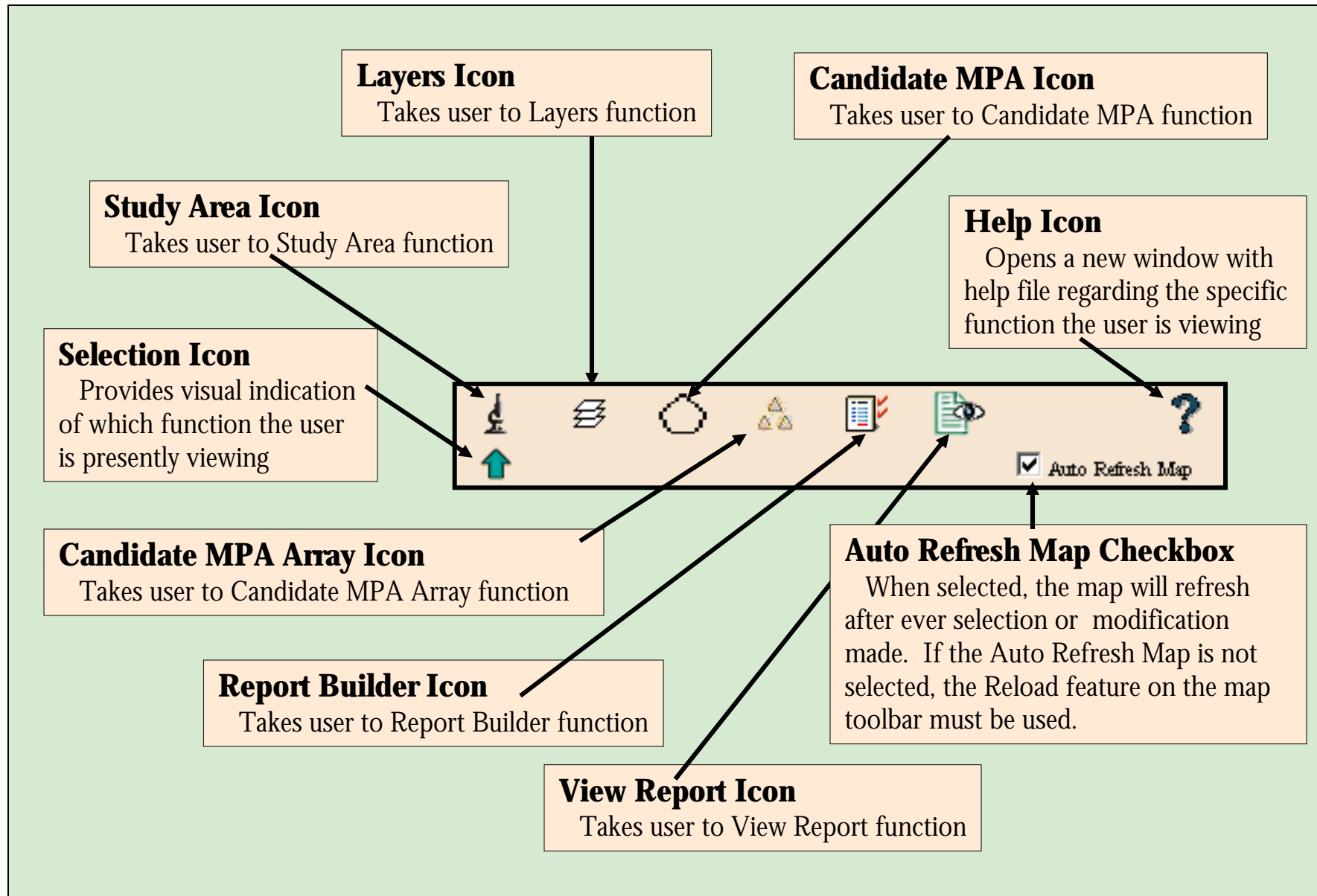


Logout

Reset

Clears all selections  
and resets the session.

# Function Toolbar



# Map Toolbar



## Zoom In

- Click the Zoom In icon on the toolbar.
- Left click and drag the crosshairs to outline a rectangle around the zoom area.
- The map will automatically zoom in to the selected area.

## Pan

- Click the Pan icon on the toolbar.
- "Grab" (click and drag) the map to recenter it.
- The map will automatically recenter.

## Previous View

- Click the Previous View icon on the toolbar.
- The map will automatically go to the view created prior to the current view.

## Zoom Out

- Click the Zoom Out icon on the toolbar.
- Left click and drag the crosshairs to create a rectangle of the map. The ratio of the rectangle to the map will be the amount of zoom out. Smaller rectangles will zoom out more so than a large rectangle.
- The map will automatically zoom out.

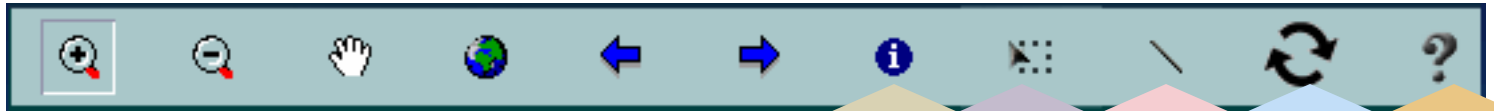
## Full Extent

- Click the Full Extent icon on the toolbar.
- The map will automatically revert to the selected study area.

## Next View

- Click the Next View icon on the toolbar.
- The map will automatically go to the view created after the current view.

# Map Toolbar (contd)



## Distance

- Click the Distance icon on the toolbar.
- Left click and drag from the start point to the end point.
- The distance in meters will be displayed below the bottom left corner of the map.
- The distance line is only viewable until a different feature or function is selected.

## Reload

- Click the Reload icon on the toolbar.
- The map will display any changes made within the Left Panel.

## Help

- Click the Help icon on the toolbar.
- A new window will open displaying the help file on the toolbar.

## Identify

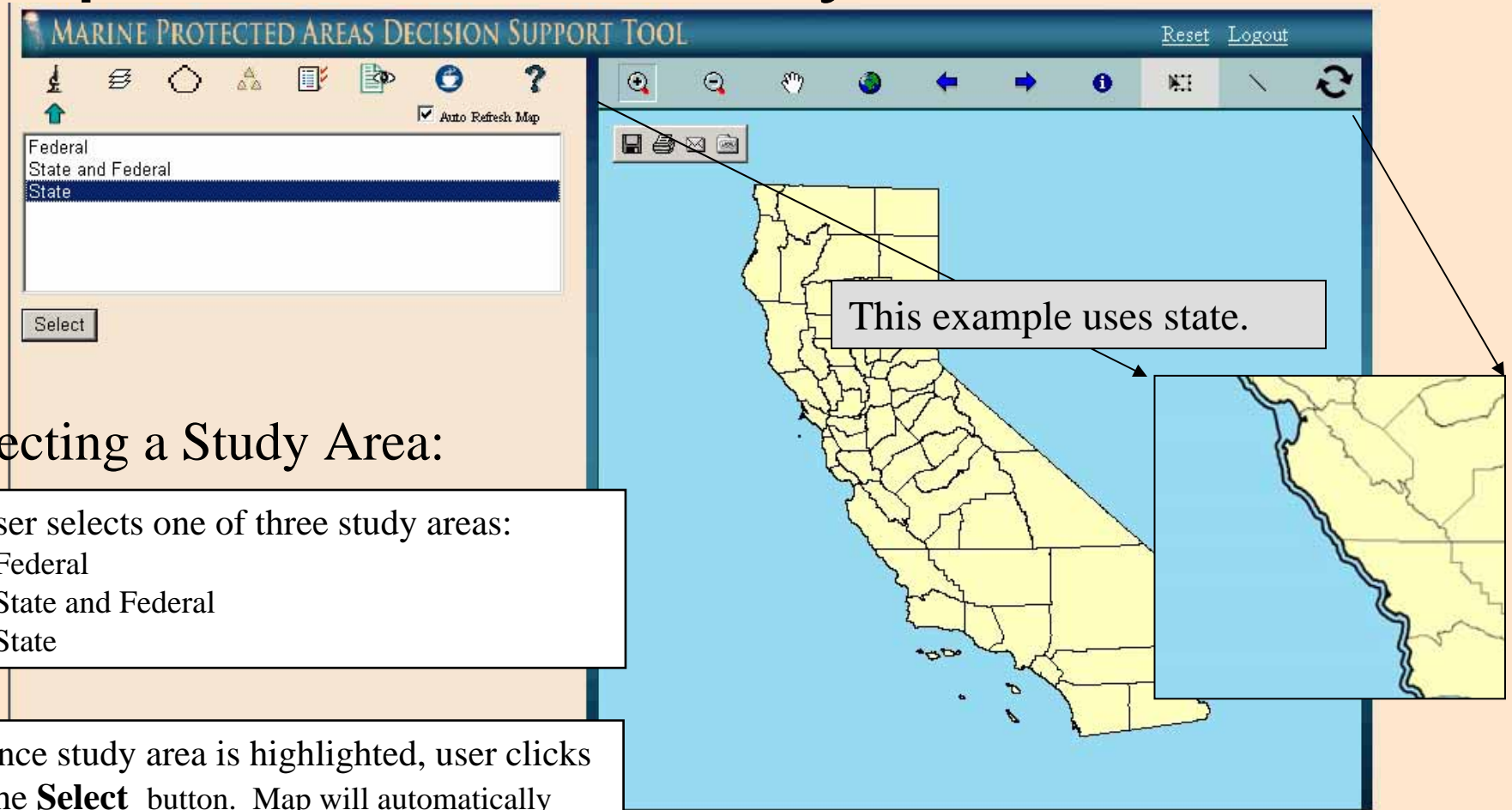
- Click the Identify icon on the toolbar.
- Click a point on the map. An information box will pop up displaying any layer attributes and features at that location.
- Click another area or close the information box.

## Draw Polygon

The *Draw Polygon* feature is only active within the MPA Candidate portions of the application.

- Click the Draw Polygon icon on the toolbar.
- Left click the start point for the MPA Candidate.
- Click each desired vertex (or point) for the MPA Candidate. A minimum of (3) three must be selected.
- Double click to snap to the first point, or close the polygon.
- After the map reloads, the MPA Candidate (polygon) should be displayed with a thick green line.

# Step 1: Select Study Area



## Selecting a Study Area:

User selects one of three study areas:

- Federal
- State and Federal
- State

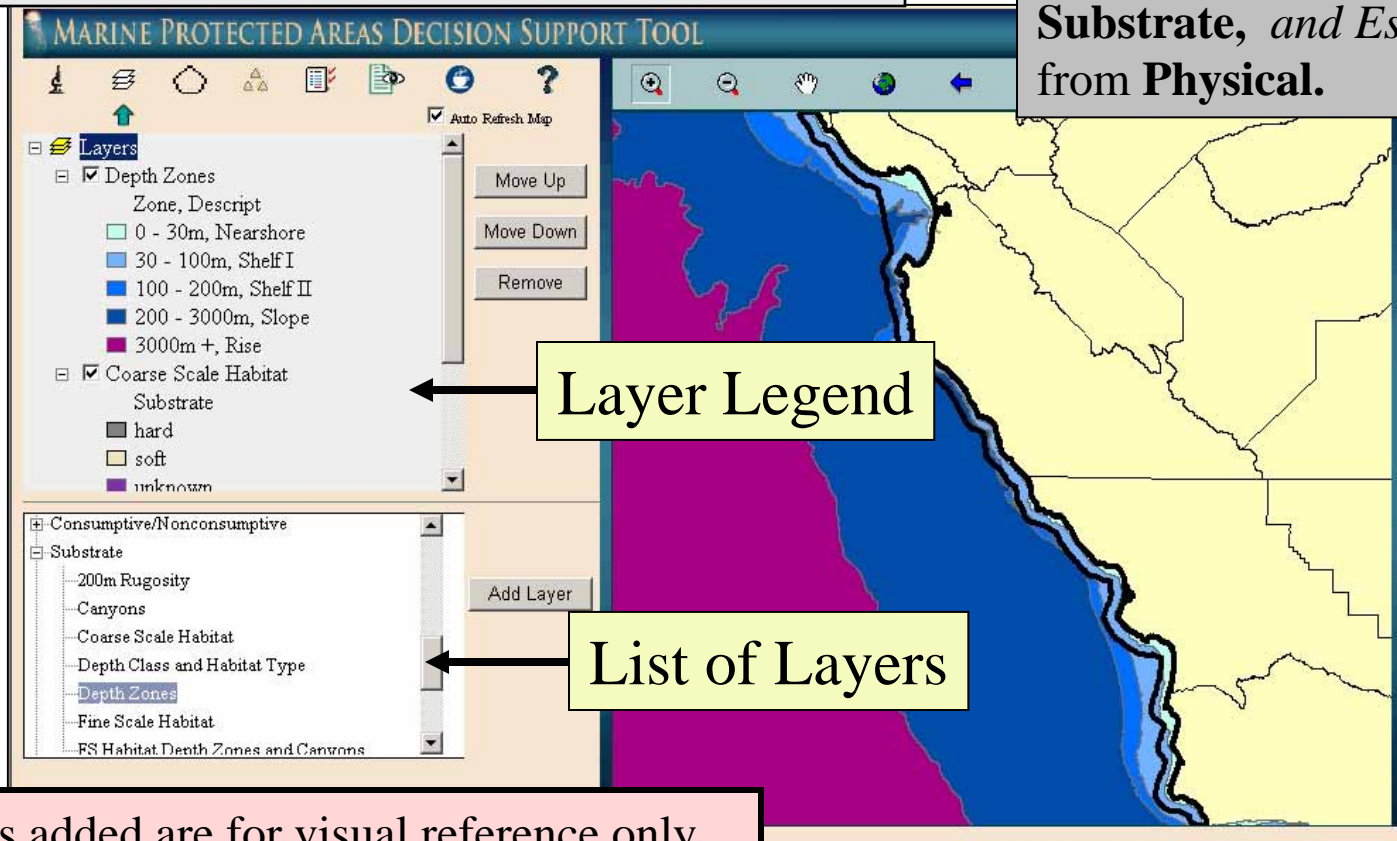
Once study area is highlighted, user clicks The **Select** button. Map will automatically zoom in to the extent of the selected area.

*After selecting a study area, click the Layers icon to add layers to the map.*

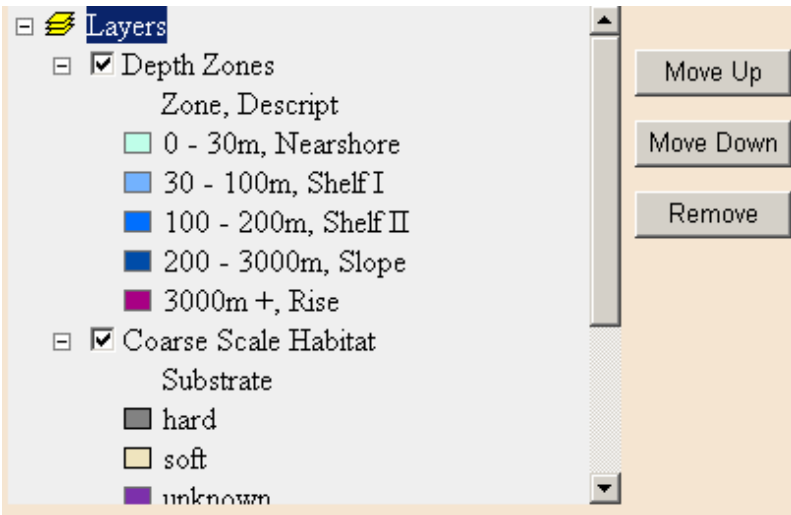
## Step 2: Adding layers to the Map

- Expand the category box by clicking the "+".
- Highlight the desired layer.
- Click the *Add Layer* button to the right of the list box
- Layer will appear on map.
- The order of the layers in the Table of Contents affects visibility – top layer covers lower layers.

This map has the *CCSR Kelp 2003* from **Biological**, *Course Scale Habitat* and *Depth Zones* from **Substrate**, and *Estuaries* from **Physical**.



# Layers – Ordering, Hiding, or Removing Layers



## Ordering Layers

- Highlight the desired layer.
- Click either the *Move Up* or *Move Down* button. Those layers listed at the top of the list will be placed above those listed below.
- Continue with Step 2 until the layers are appropriately arranged.

## Hiding Layers

By default, all layers added to the map are visible. This is indicated by the checkbox next to the layer title. In order to hide a layer (remove the layer from view without removing any metadata or information about the layer) the user simply unchecks the box beside the title.



Before Ordering

## Removing Layers

- Highlight the title of the layer to be removed.
- Click the *Remove* button.

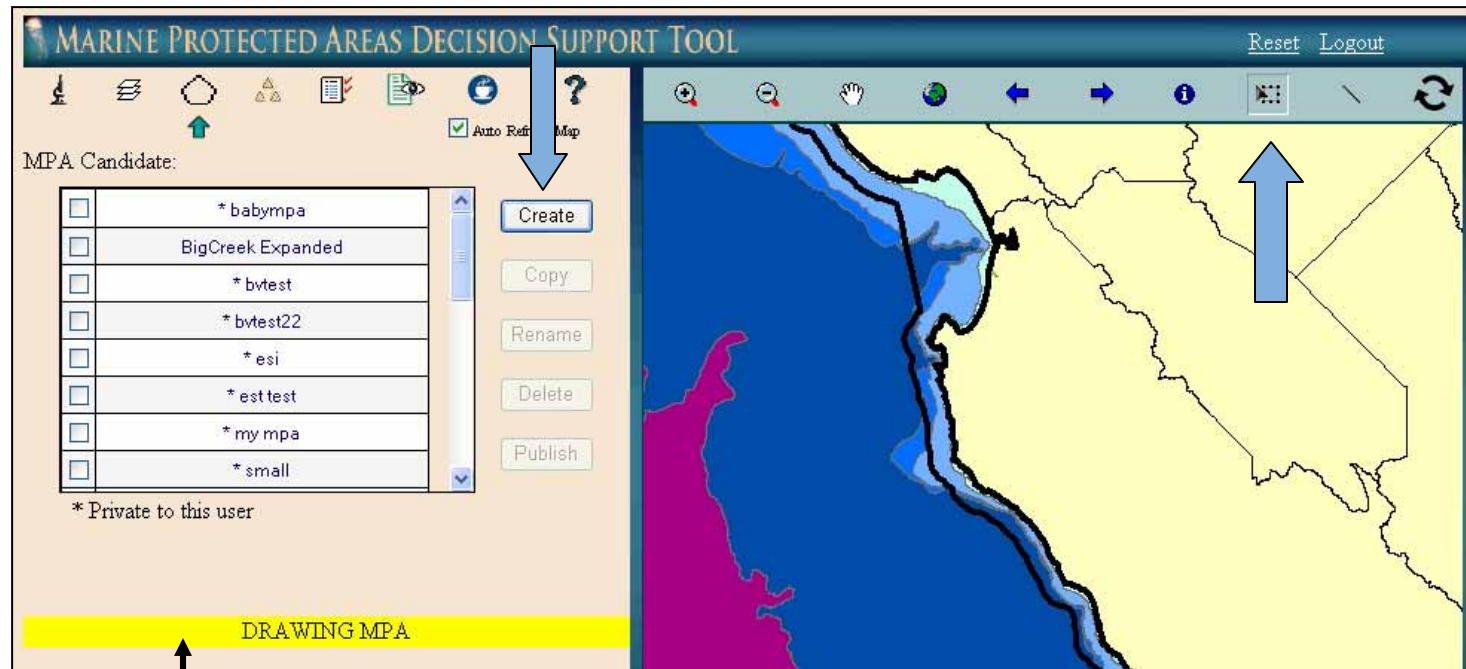


After Ordering

*Note:* Adding, Ordering, or Removing a layer to the map will automatically refresh the map view, even if the *Auto Refresh Map* feature is turned off.

## Step 3: Creating Candidate MPAs

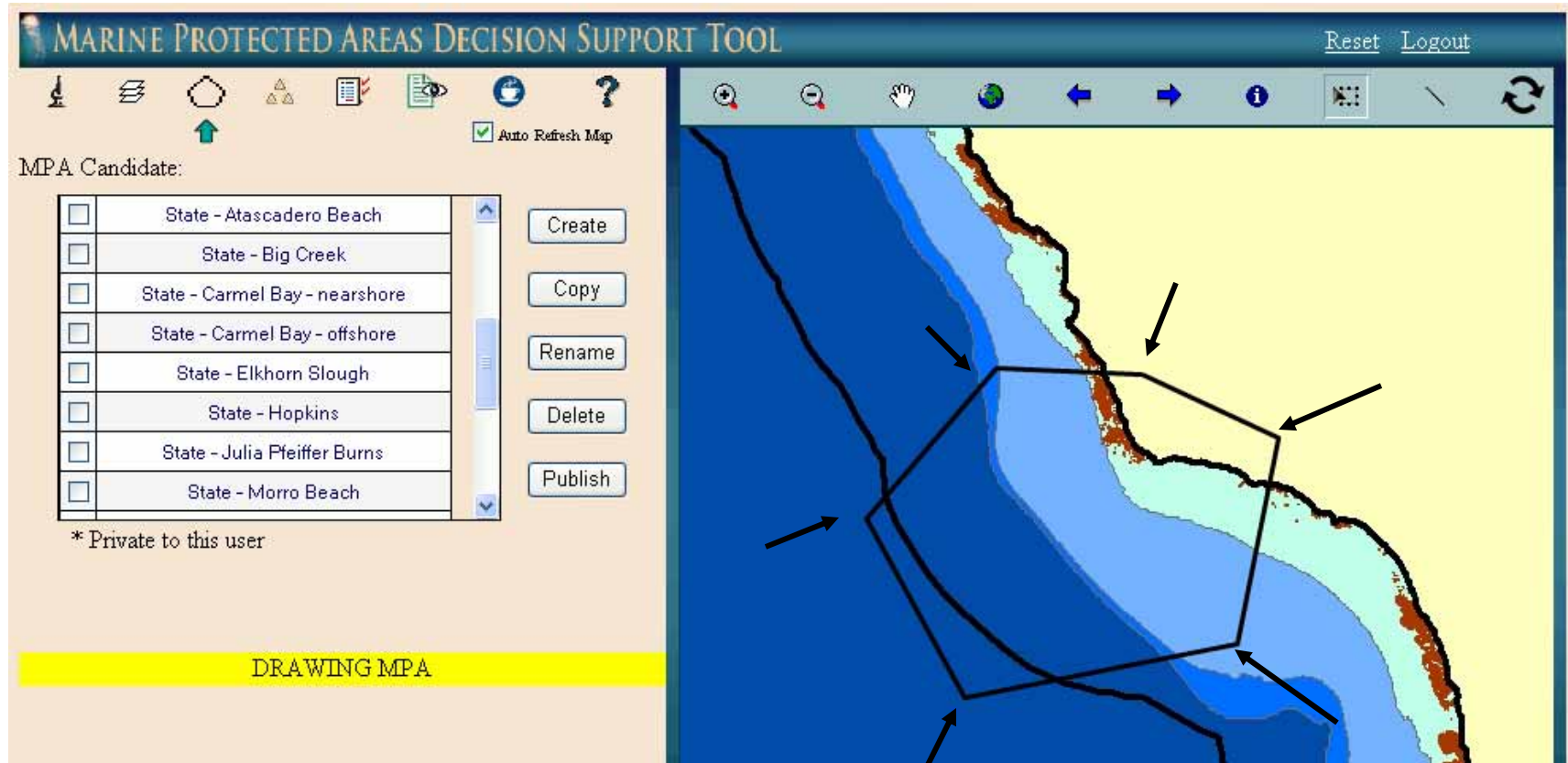
By default, the only active button is the *Create* button. Select the *Create* button. This should activate the *Draw Polygon* toolbar item on the map. Check to ensure that the *Draw Polygon* toolbar item on the map toolbar is active.



Some browsers do not support the DRAWING MPA message. Users should always check which map tool is selected for proper use.

# Creating Candidate MPAs

User should use the zoom tool to better view the area targeted for creation of a Candidate MPA.



Click on the desired vertices for the polygon. A minimum of (3) vertices must be selected. Double click to snap to the first vertex and close the polygon.

# Creating Candidate MPAs

The screenshot displays the 'MARINE PROTECTED AREAS DECISION SUPPORT TOOL' interface. On the left, a panel titled 'MPA Candidate:' contains a text box for 'Name' (containing 'Example MPA Candidate') and a larger text box for 'Description' (containing 'Description of example Candidate MPA.'). Below these are checkboxes for 'small' and '\* Private to this user', and a 'Clip to Study Area' checkbox which is checked. At the bottom of the panel are 'Save' and 'Cancel' buttons. A large green polygon is drawn on a map of a coastal area, representing the candidate MPA. An inset map in the top right corner shows the same area with the polygon clipped to fit the study area's boundary. A scale bar at the bottom of the map indicates distances in nautical miles.

MPA Candidate:

- Enter in the Name and Description within the text boxes that appear within the Left Panel.
- Click *Save* to save the polygon as a Candidate MPA or *Cancel* to erase it.

\* Private to this user

New MPA: Example MPA Candidate

Description: Description of example Candidate MPA.

☒ Clip to Study Area

Save Cancel

Example MPA Candidate

Candidate MPA has been clipped to fit the study area. A label with the name of the Candidate MPA is now placed on the map.

*Clip to Study Area* will clip any portions of the Candidate MPA that fall outside of the selected study area.

# Creating Candidate MPAs

The screenshot displays the 'MARINE PROTECTED AREAS DECISION SUPPORT TOOL' interface. At the top, there is a header bar with the tool's name and 'Reset' and 'Logout' links. Below the header is a toolbar with various icons. The main interface is divided into two main sections: a left sidebar and a right map area.

**Left Sidebar:**

- MPA Candidate:** A section containing a list of candidate MPAs. The first three are marked with an asterisk (\*):
  - \* Example MPA Candidate (checked)
  - \* my mpa
  - \* smallThe remaining four are state names:
  - State - Atascadero Beach
  - State - Big Creek
  - State - Carmel Bay - nearshore
  - State - Carmel Bay - offshore
  - State - Elkhorn Slough
- Buttons:** A vertical stack of buttons: 'Create', 'Copy', 'Rename', 'Delete', and 'Publish'.
- Footer:** A note at the bottom of the sidebar states '\* Private to this user'.

**Right Map Area:**

- A map showing a coastal area with a green polygon labeled 'Example MPA Candidate' overlaid on it.
- A scale bar at the bottom indicates distances in Nautical Miles: 0, 0.3, 0.6, 1.2, 1.8, 2.4, 3.

**Annotations:**

- A grey callout box with an arrow pointing to the '\* Example MPA Candidate' entry in the list box contains the text: 'New Candidate MPA now appears in list box. All newly created candidates will be checked to appear on the map by default.'
- A brown callout box with an arrow pointing to the asterisk on the first entry contains the text: 'The “\*” asterisk indicates this Candidate MPA is only viewable by this user.'

# Managing Candidate MPAs

The Candidate MPA portion handles creating, copying, renaming, deleting, publishing, and placing MPA Candidates upon the map. Only those Candidate MPAs placed upon the map are eligible for the final report. Candidate MPAs that are placed on a map as part of a Candidate MPA Array are viewable in the final report as part of the Candidate Array.

The list box provides a list of all public and private (those MPA Candidates drafted under that username) MPA Candidates. By highlighting an MPA Candidate, the Author, Date (of creation), and Description will be displayed beneath the list box. (*Note: Newly created, copied, or renamed Candidate MPAs will be private until the user publishes them for public view.*)

MPA Candidate:

<input type="checkbox"/>	BigCreek Expanded
<input type="checkbox"/>	* my mpa
<input type="checkbox"/>	* small
<input type="checkbox"/>	State - Atascadero Beach
<input type="checkbox"/>	State - Big Creek
<input type="checkbox"/>	State - Carmel Bay - nearshore
<input type="checkbox"/>	State - Carmel Bay - offshore
<input type="checkbox"/>	State - Elkhorn Slough

\* Private to this user

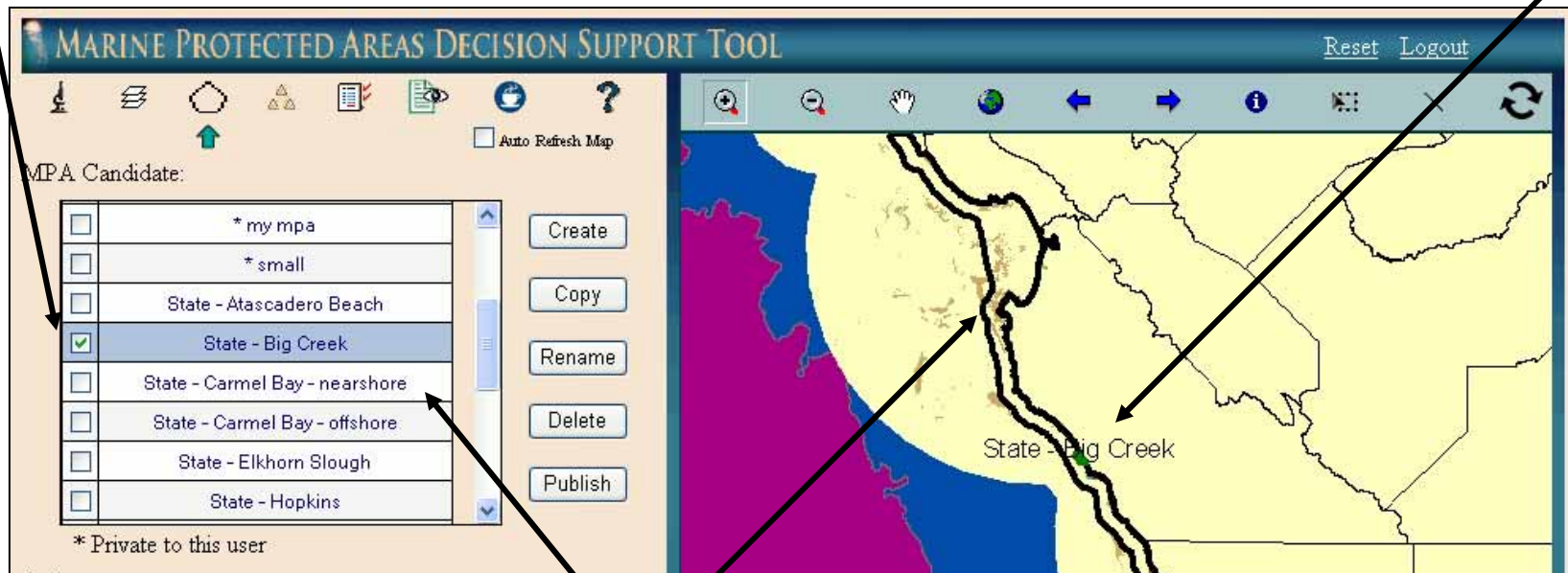
Create  
Copy  
Rename  
Delete  
Publish

# Adding or Removing MPA Candidates to and from the Map

The checkbox - displaying the title of the MPA Candidate - controls placement of MPA and MPA Candidates upon the map. Checking the box will draw the MPA Candidate upon the map and make it accessible for the final report. Unchecking the box will remove it from view and inclusion in the final report.

Big Creek State MPA is checked in list box.

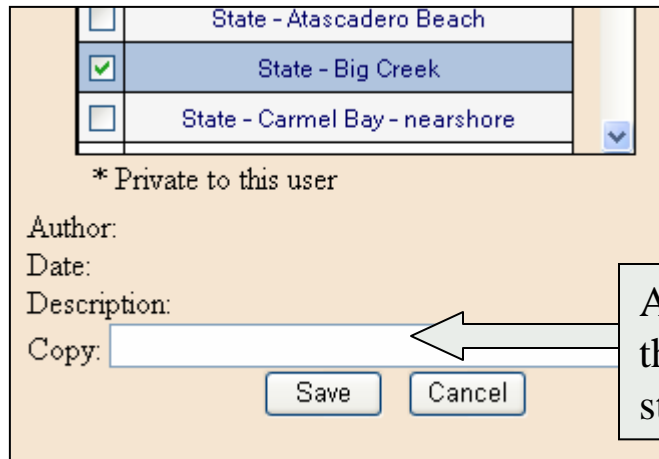
Big Creek State MPA appears on the map.



Those Candidate MPAs and MPAs not checked do not appear on the map.

# Copying Candidate MPAs

- Select the Candidate MPA to be copied.
- Click the *Copy* button.



State - Atascadero Beach

☒ State - Big Creek

State - Carmel Bay - nearshore

\* Private to this user

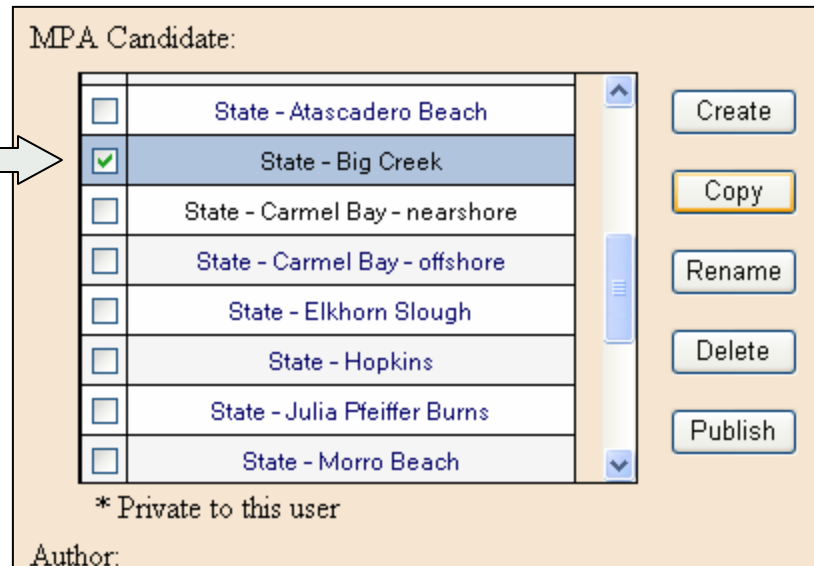
Author:

Date:

Description:

Copy:

Save Cancel



MPA Candidate:

☐ State - Atascadero Beach

☒ State - Big Creek

☐ State - Carmel Bay - nearshore

☐ State - Carmel Bay - offshore

☐ State - Elkhorn Slough

☐ State - Hopkins

☐ State - Julia Pfeiffer Burns

☐ State - Morro Beach

\* Private to this user

Author:

Create

Copy

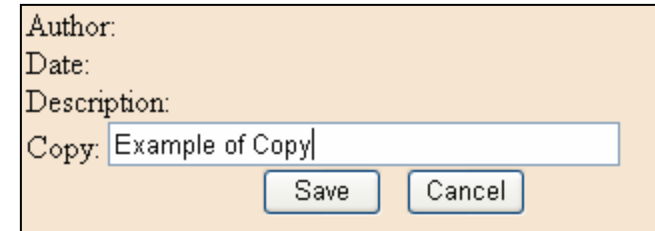
Rename

Delete

Publish

Author, Date, and Description of Candidate MPAs appear below the list box, along with a text box to name the copy. For actual state and federal MPAs, no information will be displayed.

- Enter the new name into the textbox labeled "Copy". Only the name of the MPA Candidate is editable when copying.
- Click the *Save* button to save a copy or *Cancel* to cancel the action. Saved copies will have an author and date associated with them.



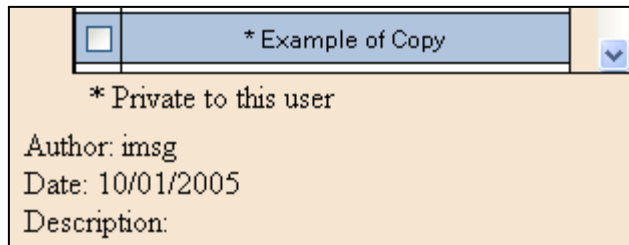
Author:

Date:

Description:

Copy:

Save Cancel



☐ \* Example of Copy

\* Private to this user

Author: imsg

Date: 10/01/2005

Description:

- The copy will be added to the list box as a private MPA Candidate.
- Check the box next to the name of the copy to display it upon the map. The original will remain displayed upon the map until unchecked by the user.

# Renaming Candidate MPAs

- Select the Candidate MPA to be renamed.
- Click the *Rename* button. This will display Author, Date, and Description below the list box, along with two text boxes for the new name and new description. By default, the original name and description are entered into the box.
- Enter the new name into the textbox labeled "Rename" and the description into the textbox labeled "Description". Only the name and description of the MPA Candidate are editable when renaming.
- Click the *Save* button to save the changes or *Cancel* to cancel the action.

The screenshot displays a web-based interface for managing Marine Protected Area (MPA) candidates. On the left, a list box contains four entries: "est test", "\* Example MPA Candidate", "\* Example of Copy" (which is selected with a green checkmark), and "\* my mpa". To the right of the list are "Delete" and "Publish" buttons. Below the list, a checkbox labeled "\* Private to this user" is present. The form below the checkbox includes fields for "Author: imsg", "Date: 10/01/2005", and "Description:". The "Rename:" field contains the text "State Expansion of Big Creek", and the "Description:" text area contains "Expanding the present boundaries of Big Creek". At the bottom of the form are "Save" and "Cancel" buttons. On the right side of the interface is a map showing a coastal area with a green boundary line. A label "Example of Copy" points to this boundary. At the bottom of the map is a scale bar indicating distances from 0 to 3 Nautical Miles.

MPA Candidate	Actions
est test	
* Example MPA Candidate	
* Example of Copy	<input checked="" type="checkbox"/>
* my mpa	

\* Private to this user

Author: imsg  
Date: 10/01/2005  
Description:

Rename: State Expansion of Big Creek

Description: Expanding the present boundaries of Big Creek

Save Cancel

0 0.30.6 1.2 1.8 2.4 3 Nautical Miles

# Renaming Candidate MPAs (contd)

➤ The new name will appear in the list box.

MPA Candidate:

<input type="checkbox"/>	State - Pacific Grove
<input type="checkbox"/>	State - Pismo
<input type="checkbox"/>	State - Pismo-Ocean Beach
<input type="checkbox"/>	State - Point Lobos
<input type="checkbox"/>	State - Special Closure: A...evo
<input type="checkbox"/>	Invertebrate Ar
<input type="checkbox"/>	State - Vandenberg
<input checked="" type="checkbox"/>	* State Expansion of Big Creek
<input type="checkbox"/>	* test

\* Private to this user

Author: imsg  
Date: 10/01/2005  
Description: Expanding the present boundaries of Big Creek

Create  
Copy  
Rename  
Delete  
Publish

State Expansion of Big Creek

➤ The new label will appear on the Candidate MPA.

# Publishing or Deleting Candidate MPAs

## To Delete

- Select the Candidate MPA to be removed.
- Click the *Delete* button.
- Click "OK" on the alert boxes to proceed with the deletion.
- The Candidate MPA will be removed from the list box and the map (if it was displayed on the map).

## To Publish – sharing your candidate MPA with other users

- Select the private Candidate MPA to be published.
- Click the *Publish* button.
- The Candidate MPA will now appear in the list box without the "\*" in front of the title. This indicates that all users can now view the Candidate MPA.

## Step 4: Creating Candidate MPA Arrays

- By default, the only active button is the *Create* button.
- Select the *Create* button. Beneath the list box, two text boxes should appear labeled *Name* and *Description*.
- Enter in the Name and Description within the text boxes that appear within the Left Panel.
- Click *Save* to save the Candidate MPA Array title or *Cancel* to erase it.
- The new title should appear in the list box with an "\*" to indicate the Candidate Array is private.

The screenshot shows a software interface for creating a new Candidate MPA Array. On the left, a list box contains two entries: "\*bytesrarr" and "my network". To the right of the list box is a vertical column of buttons: "Create" (highlighted with a blue border), "Copy", "Rename", "Delete", "Publish", and "Edit". Below the list box, the text "to this user" is visible. In the center, there are two text input fields. The top field is labeled "New Array:" and contains the text "Example Candidate Array". The bottom field is labeled "Description:" and contains the text "Example Candidate Array in the Big Creek area.". At the bottom of the form are two buttons: "Save" and "Cancel".

**Create only establishes the name, author, date of creation, and description of the Candidate MPA Array. Adding Candidate MPAs into a Candidate MPA Array is performed in the Edit option.**

# Adding Candidate MPAs to a Array

*Edit* allows the user to modify the Candidate MPAs contained within a Candidate MPA Array.

- Select the Candidate MPA Array to be edited.
- Click the *Edit* button.
- The Array Editor will appear to the bottom of the left panel as shown:

Candidate MPA Array name

Editor Panel

All MPAs and Candidate MPAs  
available for inclusion into the array.

The screenshot shows a web interface for managing MPA arrays. At the top, a table lists existing arrays:

Array:
<input type="checkbox"/> * bytesrarr
<input checked="" type="checkbox"/> * Example Candidate Array
<input type="checkbox"/> my network

To the right of the table are buttons: Create, Copy, Rename, Delete, Publish, and Edit. Below the table, it says '\* Private to this user'. Underneath is a section with metadata: Author: imsg, Date: 10/01/2005, and Description: Example Candidate Array in the Big Creek area. A Save button is below this. The main area is divided into two panels. The left panel, titled 'Example Candidate Array', contains a list of candidate MPAs: small, State - Special Closures, State - Elkhorn Slough, State - Hopkins, State - Pacific Grove, State - Carmel Bay - c, State - Carmel Bay - r, State - Point Lobos, State - Julia Pfeiffer B, State - Big Creek, State - Atascadero B, and State - Morro Beach. To the right of this list are 'Add' and 'Remove' buttons. The right panel is empty. A yellow arrow points from the 'Candidate MPA Array name' label to the 'Example Candidate Array' title. A green arrow points from the 'Editor Panel' label to the list of candidate MPAs. A yellow arrow points from the 'All MPAs and Candidate MPAs available for inclusion into the array.' label to the list of candidate MPAs. Another yellow arrow points from the 'All MPAs and Candidate MPAs in the array.' label to the empty right panel.

All MPAs and Candidate  
MPAs in the array.

# Adding Candidate MPAs to an Array (contd)

- To add a Candidate MPA to the MPA Candidate Array, highlight the Candidate MPA and click the *Add* button. The Candidate MPA will be removed from the Candidate MPA list and added to the Candidate MPA Array list.
- To remove a Candidate MPA from the MPA Candidate Array, highlight the Candidate MPA and click the *Remove* button. The Candidate MPA will be removed from the Candidate MPA Array list and added back to the Candidate MPA list.
- Once the MPA Candidate Array editing is completed, click the *Save* button to save the changes. Once the changes are saved, the Array Editor will close.
- By default, the edited MPA Candidate Array will be highlighted.

Save

Example Candidate Array

small  
State - Special Closures  
State - Elkhorn Slough  
State - Hopkins  
State - Pacific Grove  
State - Carmel Bay - c  
State - Carmel Bay - r  
State - Point Lobos  
State - Julia Pfeiffer B  
State - Big Creek  
State - Atascadero B  
State - Morro Beach

Add  
Remove

State Expansion of Big C  
Big Creek A  
Big Creek B

The following MPA Candidates were added to the array:

- State Expansion of Big Creek
- Big Creek A
- Big Creek B

# Adding Candidate MPAs to an Array (contd)

In order to make the Candidate Array appear on the map (and available for inclusion into a report) it must appear on the map.

**MARINE PROTECTED AREAS DECISION SUPPORT TOOL**

Reset Logout

Auto Refresh Map

Array:

<input type="checkbox"/>	* bytesrarr
<input checked="" type="checkbox"/>	* Example Candidate Array
<input type="checkbox"/>	my network

\* Private to this user

Author: imsg  
Date: 10/01/2005  
Description: Example Candidate Array in the Big Creek area.

Example Candidate Array Big Creek A  
Example Candidate Array State of Big Creek  
Example Candidate Array Big Creek B

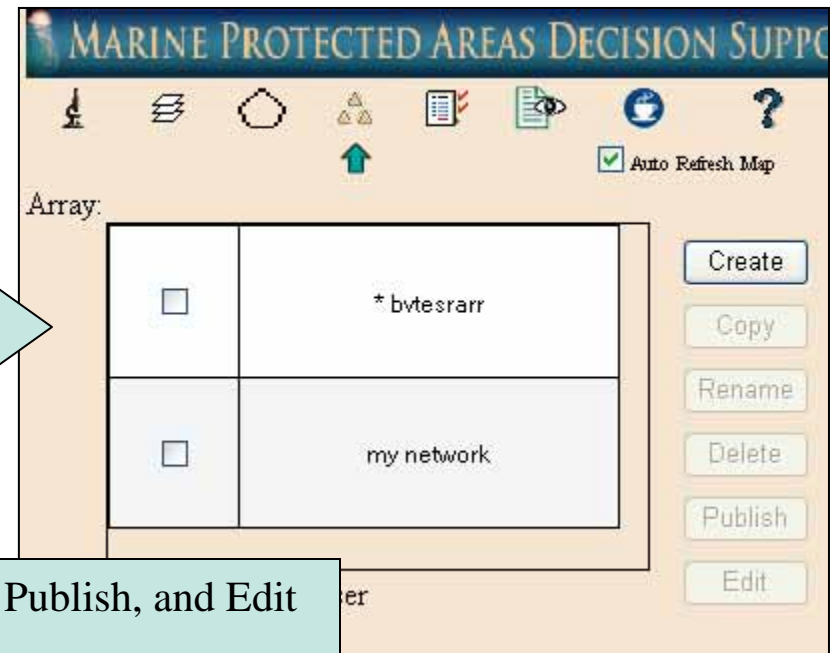
Expansion of Big Creek Candidate MPA appears as an individual MPA Candidate and part of a Candidate MPA Array.

Candidate MPAs that are part of an array are labeled as:  
Array Name . MPA Name

# Managing Candidate MPA Arrays

The Candidate MPA Array portion handles creating, copying, renaming, deleting, publishing, editing, and placing MPA Candidates upon the map. Only those Candidate MPAs and Candidate MPA Arrays placed upon the map are eligible for the final report. Candidate MPAs that are placed on a map as part of a Candidate MPA Array are viewable in the final report as part of the Candidate Array. To view a Candidate MPA individually and as part of a Candidate MPA Array, it must be placed on the map under both categories.

The list box provides a list of all public and private (those MPA Candidate Arrays drafted under that username) MPA Candidates Arrays. By highlighting an MPA Candidate Array, the Author, Date (of creation), and Description will be displayed – just like for Candidate MPAs.



All the management features: Copy, Rename, Delete, Publish, and Edit are available for the Candidate MPA Arrays.

# Administrators create a new reports using the report builder template

The screenshot shows the 'MARINE PROTECTED AREAS DECISION SUPPORT TOOL' interface. At the top, there is a 'Model Name' field containing 'Example Report', with an arrow pointing to it from a label 'Model/Report Name'. Below this are three tabs: 'Layers', 'Attributes', and 'Details'. The 'Attributes' tab is selected and highlighted with a yellow box labeled 'Attributes tab'. The 'All Layers' section on the left lists categories: 'Current Layers', 'Biological', 'Cultural', 'Physical', 'Consumptive/Nonconsumptive', 'Substrate', 'Management', and 'Base'. The 'Selected Layers' section on the right contains 'Depth Zones' and 'Coarse Scale Habitat'. Between these sections are 'Add' and 'Remove' buttons, and a small image of coral. At the bottom are 'Save' and 'Close' buttons.

**MARINE PROTECTED AREAS DECISION SUPPORT TOOL**

Model Name: Example Report

**Model/Report Name**

Layers | **Attributes** | Details

**Attributes tab**

**All Layers**

- Current Layers
- Biological
- Cultural
- Physical
- Consumptive/Nonconsumptive
- Substrate
- Management
- Base

**Selected Layers**

- Depth Zones
- Coarse Scale Habitat

Add

Remove

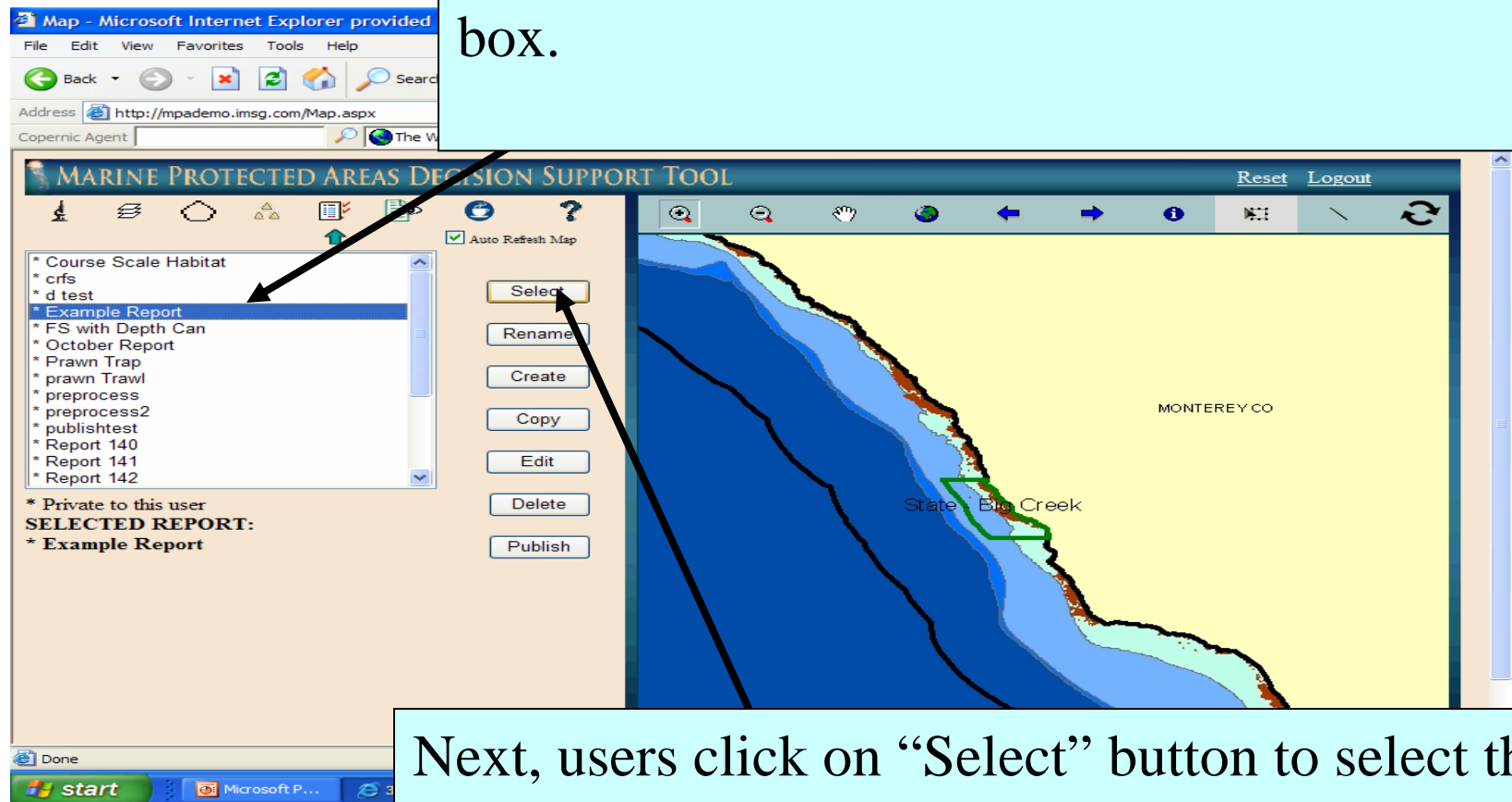
Save

Close

Most users will skip this step and use preexisting report templates.

# Step 5: Selecting Reports

First, users click on the report name in the list box.



Next, users click on "Select" button to select the report. All layers contained in the report are added to the map

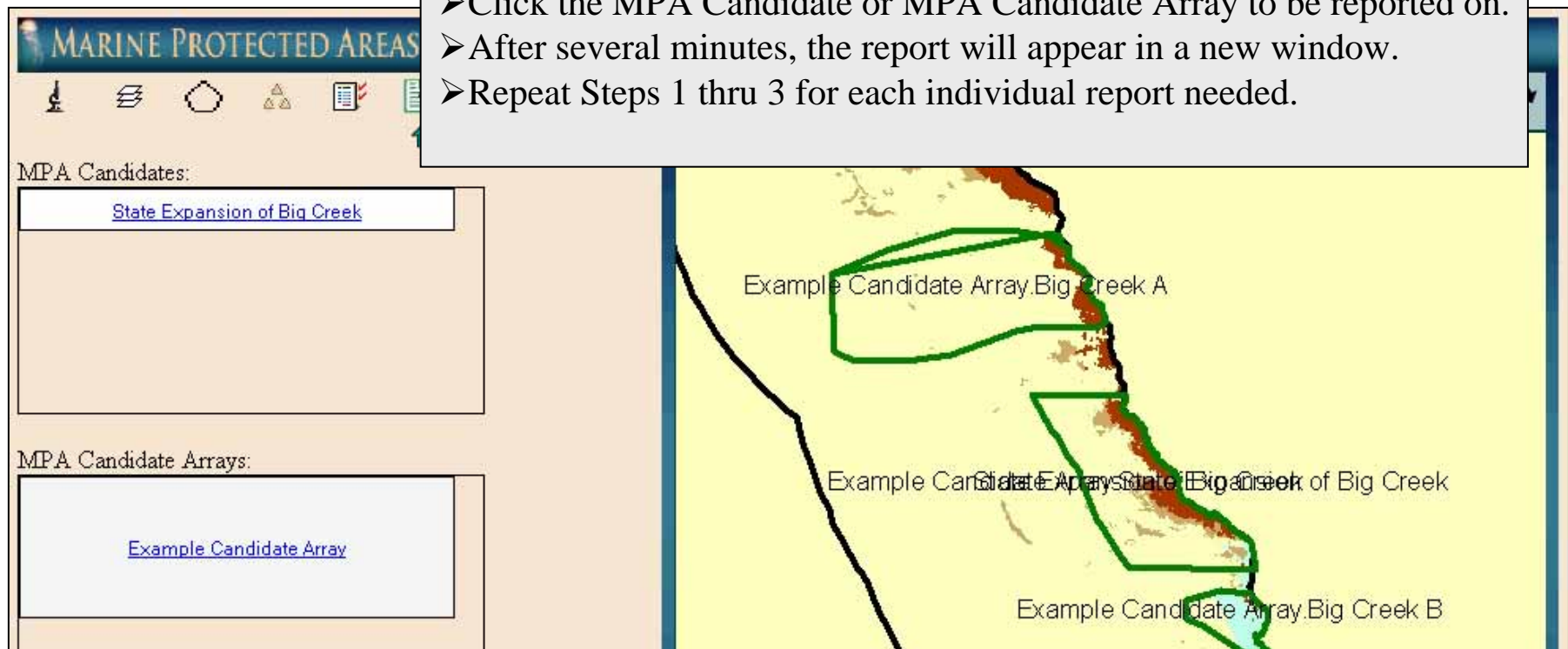
# Definitions of Report Functions

Function	Definition
<b>Count</b>	Count of features included in MPA
<b>Count - % Study Area</b>	Count / Count of features included in Study Area
<b>Total</b>	Sum of field values (must be numeric)
<b>Total - % Study Area</b>	Total / Sum of field values (must be numeric)
<b>Avg of Blocks</b>	Total/Count
<b>Range</b>	Min field value – Max field value
<b>Area</b>	Area of Feature
<b>% MPA, Area</b>	Area of Feature / Area of MPA
<b>% Study Area, Area</b>	Area of Feature / Area of Feature in Study Area
<b>List</b>	List of unique Field values
<b>Distance</b>	Distance to nearest feature (ie ports & harbors)
<b>Coast Line Distance</b>	Break out of types of Coast Line intersected with MPA

# Step 6: View Reports

The View Reports portion allows users to view the reports created from the criteria selected with the MPA DST. The user can select to view reports on individual MPA Candidate or MPA Candidate Arrays that are derived from the MPA Candidate and Candidate Arrays placed on the map and the selected report. To view a report, the user should follow the steps listed below:

- Click the MPA Candidate or MPA Candidate Array to be reported on.
- After several minutes, the report will appear in a new window.
- Repeat Steps 1 thru 3 for each individual report needed.



**Note:** Only the “Expansion of Big Creek” Candidate MPA is available for individual reporting. This is because it was placed on the map through the Candidate MPA function.

# Report

Once a Candidate MPA or Candidate MPA Array is chosen, a new window will open for the report. Depending on the intensity of the calculations required, this can take several minutes to generate. All reports will contain:

- Candidate MPA/Array title, description, author, and creation date
- Requested Attribute and Feature calculations in table format by layer
- Layer and/or Attribute description

MPA Candidate Array Reports will contain:

- A breakdown of each Candidate MPA that is part of the Candidate Array
- Network Summary
- Distance between Candidate MPAs

# Report Example

Report - Mozilla Firefox

File Edit View Go Bookmarks Tools Help

file:///c:/Documents%20and%20Settings/sherwoodb/My%20Documents/MPA/Report.htm

Java Examples from ... Overview (Java 2 PL... ArcGIS Developer O... Wright-Patt Credit U... ARPC Publications &... pipeline ESRI Developer Net...

**Report Name: October Report**

**MPA Candidate Name: FSHab**

Description:  
Got some features.

Created By:  
Created Date: 10/04/2005

Depth Zones	Count	% Count Study Area	Total	% Total Study Area	Mean	Range	Area(NMi <sup>2</sup> )	% Area MPA	% Area Study Area
Zone							0.72	100.00 %	0.08 %
100 - 200m							0.15	20.46 %	0.27 %
200 - 3000m							0.03	4.75 %	0.04 %
30 - 100m							0.54	74.79 %	0.12 %
Description							0.72	100.00 %	0.08 %
Shelf II							0.15	20.46 %	0.27 %
Slope							0.03	4.75 %	0.04 %
Shelf I							0.54	74.79 %	0.12 %

Coarse Scale Habitat	Count	% Count Study Area	Total	% Total Study Area	Mean	Range	Area(NMi <sup>2</sup> )	% Area MPA	% Area Study Area
IND							0.72	100.00 %	0.08 %
hard							0.61	84.27 %	0.78 %
soft							0.11	15.73 %	0.01 %

Fine Scale Habitat with Depth Zones and Canyons	Count	% Count Study Area	Total	% Total Study Area	Mean	Range	Area(NMi <sup>2</sup> )	% Area MPA	% Area Study Area
Done									

start Micro... 3.1... MPA ArcC... Repo... Info... Docu... Micro... Address 7:37 PM